SEQUENCE LISTING

<110> Stevens, Bruce R. Cuda, James P. Long, Lewis S. <120> Materials and Methods for Controlling Pests <130> UF-283 <160> 27 <170> PatentIn version 3.1 <210> <211> 2860 DNA <212> Manduca sexta, Aedes aegypti, and Leptinotarsa decemlineata <213> <400> ggcacgaggt tacttgttgg aggaactgtt tggcggtggt gcgatcgatt tctgaacaca 60 atacacctaa acacattgca agtgtgatat tgtggacaaa atgaatgacg gccaagtaaa 120 cggcggtttc gagtcgtcgg agcccaagat ggaaccaaaa cgatcatcgc aaataagttt 180 acctccagca aataataaag cggctctgga taatatagat gacacggact tagaggctga 240 accgccagaa cgtatggtat ggtccaacaa cattgaattc ttgatgtcct gcatcgctac 300 atccgtcggt ttgggtaacg tgtggcggtt ccctttcatc gcgtaccaga atggaggagg 360 tgctttcctg gtgccatacg tcatcgttct tttacttgtc ggcaagcctg tgtactactt 420 agagtgtgtc ctcggacaat tcagttcaag aaactctgtt aaagtttggt caatttcacc 480 ggccatgaaa ggtactggat acgctcaagc tgccggctgc ggttacatcc tgtcttacta 540 cgtggtgatc tgtggtctct gtctgtatta cttagctatg agcttccagg ccactcttcc 600 atgggctatt tgtcagcctg agtgggagaa ctgcgtaccc tcagatccaa cacttgctgc 660 atcagtcaac aacatcacca atggtaccag cagtgctcaa ctctactttt tgagaacagt 720 tctccaacaa agcgatggaa ttgaaggagg tctcggtgcc cccatctggt acttggtgtt 780 gtgtctattc atcgcatggc tcatggtgtt cggagtcgtc gcccgaggag tcaagagttc 840 cggcaaagcg gcctacttcc tcgcgctctt cccatacgtt gtcatgatca ctttattcat 900 caccacaatc atcctgcccg gtgctactga cggcatcctg ttcttcgtca cgcctcaatg 960 ggcgaaactc cttgagctcg gtgtatggta ctcagcagtc acgcaagtgt tcttctctct 1020 gacagtgtgc accggaccga tcatcatgtt ctcctcttac aacggtttca gacataatat 1080 ctacagggat gcttggattg ttacgacttt ggacaccttt acaagtttct tgtctgggtg 1140

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Pro Glu Arg Met Val Trp Ser Asn Asn Ile Glu Phe Leu Met Ser Cys 50

Ile Ala Thr Ser Val Gly Leu Gly Asn Val Trp Arg Phe Pro Phe Ile 75

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Met Lys Gly Thr Gly Tyr Ala Gln Ala Ala Gly Cys Gly Tyr Ile Leu 135 130

Ser Tyr Tyr Val Val Ile Cys Gly Leu Cys Leu Tyr Tyr Leu Ala Met 150 145

Ser Phe Gln Ala Thr Leu Pro Trp Ala Ile Cys Gln Pro Glu Trp Glu 165

Asn Cys Val Pro Ser Asp Pro Thr Leu Ala Ala Ser Val Asn Asn Ile 185

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Pro Gly Ala Thr Asp Gly Ile Leu Phe Phe Val Thr Pro Gln Trp Ala 275 280 285

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Met Ser Val Leu Gly Ile Gly Ser Ser Val Ala Leu Leu Ser Thr Phe 405 410 415

Asn Thr Leu Ala Met Asp Ala Phe Pro Arg Val Pro Thr Val Tyr Met 420 425 430

Ser Ala Met Thr Cys Ser Cys Gly Phe Leu Leu Gly Leu Val Tyr Cys 435 440 445

Thr Pro Gly Gly Gln Tyr Ile Leu Glu Leu Val Asp His Tyr Gly Gly 450 455 460

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Pro Ala Ile Met Thr Thr Val Phe Phe Tyr Ala Leu Leu Ala Ser Asn 515 520 525

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Arg Glu Arg Arg Glu Trp Met Gln Phe Lys Ala Glu Ala Lys Ala Leu 595 600 605

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